MIAMI-DADE COUNTY
PRODUCT CONTROL
SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Viridian Systems, Inc.
3847 Crum Road
Youngstown, OH 44515

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Viridian Modified Bitumen Roofing Systems over Steel Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA No. 14-0626.16 and consists of pages 1 through 89.
The submitted documentation was reviewed by Alex Tigera.

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Material:	SBS
Deck Type:	Steel
Maximum Design Pressure:	-172.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
Vented Base G (TG)	39” x 49’ (1.5 sq.)	ASTM D6163	Fiberglass reinforced, modified bitumen membrane with 1” wide factory applied heat weldable strips on back side.
Vented Base P (TG)	39” x 33’ (1 sq.)	ASTM D6164	Polyester reinforced, modified bitumen membrane with 1” wide factory applied heat weld strips on back side.
Pika Ply SS-3G	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Pika Ply 2.2 (FS)	39" x 49' (1.5 sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film for heat weld bonding to the top side. Applied in hot asphalt, cold adhesive or ribbon stripping.
Pika Ply SS-3G (TG)	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding.
Pika Ply Base (TG)	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding.
Pika Ply 180 (S)	39" x 49' (1.5 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Pika Ply 180 (FS)	39" x 49' (1.5 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Premium Cap Sheet	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Pika Ply MS-4G (TG)	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the

Product	Dimensions	Test Specification	Product Description
			top. Applied by heat welding.
Pika Ply SS-3P	39" x 33' (1 sq.) 39” x 26’ (¾ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Pika Ply SS-4	39" x 33' (1 sq.) 39” x 26’ (¾ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Pika Ply 180 (SF) 3.5	39” x 33’ (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Secure Ply (S)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Secure Ply (F)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Secure Ply X (TG)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Secure Ply	39” x 33’ (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a 4-inch or 5-inch wide side lap with a plastic burn-off film on the bottom and sanded on the top. Applied by mechanical attachment. Lap heat welded or sealed with an approved cold adhesive.
Secure Ply E (MF)	39” x 33’ (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a 5-inch wide side lap with a self-adhering compound and release film and sanded on the bottom and top surfaces. Applied by mechanical attachment. Lap self-adhered or sealed with approved cold adhesive.
Pika Ply SS-3P (TG)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Pika Ply 250 S (TG)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off

Product	Dimensions	Test Specification	Product Description
			film).
Performance Ply MS FR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Pika Ply MS-4	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Pika Ply MS-4 (TG)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Pika Ply 250 GR FR (TG)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Pika Ply Aluminum	various	ASTM D6298	Fiberglass reinforced modified bitumen sheeting faced with aluminum foil. Applied by heat welding of ribbon stripping (after removal of plastic burn-off film).
Solarflect (TG)	39” x 33’ (1 sq.)	ASTM D6162	Polyester reinforced SBS modified bitumen membrane with a plastic burn-off film on the bottom side and a reflective white top surface. Applied by heat welding.
Solarflect	39” x 33’ (1 sq.)	ASTM D6162	Stabilized polyester mat reinforced SBS modified bitumen membrane with a sanded bottom side and a reflective white top surface. Applied by hot asphalt or cold adhesive.
Permagard Capsheet	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants and surfaced with mineral granules. Applied by mechanical attachment, heat welding or ribbon stripping (after removal of plastic burn-off film).

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam-II, ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC
EPS	Type IX 1.8 pcf. Polystyrene Insulation	Generic
XPS	Type IV 1.6 pcf. Polystyrene Insulation	Generic
High Density Wood Fiberboard	Wood fiber insulation board	Generic
Perlite Insulation	Perlite insulation board	Generic
DensDeck, DensDeck Prime	Water resistant gypsum board	Georgia Pacific Gypsum LLC
H-Shield, H-Shield CG	Polyisocyanurate foam insulation	Hunter Panels LLC
ENRGY 3, ENRGY 3 25 PSI	Polyisocyanurate foam insulation	Johns Manville Corp.
ENRGY 3 CGF, ENRGY 3 FR, ENRGY 3 AGF	Polyisocyanurate foam insulation	Johns Manville Corp.
Ultra-Max, Multi-Max FA-3	Polyisocyanurate foam insulation	RMax Operating, LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum board	USG Corp.
Structodek High Density Fiberboard Roof Insulation	High Density wood fiber insulation board	Blue Ridge Fiberboard, Inc.
Fesco Board	Expanded mineral fiber insulation	Johns Manville Corp.
Pika Ply Recover Board	Mineral fortified asphaltic cored coverboard	Soprema, Inc.
EnergyGuard Polyiso Insulation, EnergyGuard Ultra POLYISO Insulation	Polyisocyanurate foam insulation	GAF
Fesco Board HD, Retro-Fit Board, DuraBoard	Expanded mineral fiberboard	Johns Manville Corp.
Kingspan GreenGuard-PB6, Kingspan GreenGuard-PB6W, Kingspan GreenGuard-PB6 PLUS, Kingspan GreenGuard-PB6FA, Kingspan GreenGuard-PB38FA, Kingspan GreenGuard-PB6FA90, Kingspan GreenGuard-PB3890	Extruded polystyrene	Kingspan Insulation LLC
Invinsa Roof Board, Invinsa FR Roof	Board	Johns Manville Corp.

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Tri-Fix Fastening System	Fastening system for base sheet attachment to lightweight concrete, gypsum or cementitious wood fiber decks.	3” diameter plate with various length fasteners	W.H. Maze Company
2.	Dekfast 12, 14 & 15 HS Fastener	Insulation fastener		SFS Intec, Inc.
3.	Dekfast Galvalume Steel Hex	Galvalume AZ50 steel plate	2 7/8” x 3 ¼”	SFS Intec, Inc.
4.	AccuTrac Hextra	Insulation fastener for wood and steel.		OMG, Inc.
5.	AccuTrac Plate	Galvalume square stress plate	3” square	OMG, Inc.
6.	OMG 3” Galvalume Steel Plate	Galvalume stress plate.	3” round	OMG, Inc.
7.	#12 Standard Roogrip, #14 Roofgrip & #15 Roofgrip	Insulation fastener.		OMG, Inc.
8.	3 in. Round Metal Plate	Galvalume AZ50 steel plate	3" round	OMG, Inc.
9.	Trufast TL Fastener	Insulation fastener for lightweight concrete, CWF and gypsum decks		Altenloh, Brinck & Co. U.S., Inc.
10.	Trufast #14 HD Fastener	Insulation fastener for wood, steel and concrete.		Altenloh, Brinck & Co. U.S., Inc.
11.	Trufast #15 EHD Fastener	Insulation fastener for wood, steel and concrete.		Altenloh, Brinck & Co. U.S., Inc.
12.	Trufast 3” Metal Insulation Plate	Galvalume AZ50 steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
13.	Polymer Batten Strip	Modified polymer batten bar		OMG, Inc.
14.	Dekfast Galvalume Steel 3” Round	Galvalume AZ50 steel plate	3” round	SFS Intec, Inc.
15.	Dekfast Coiled Batten Strip	Batten bar		SFS Intec, Inc.
16.	Trufast Flat Batten Bar	Galvalume AZ55 steel batten bar		Altenloh, Brinck & Co. U.S., Inc.
17.	Trufast Recessed Batten Bar	Galvalume AZ55 steel batten bar with recessed holes		Altenloh, Brinck & Co. U.S., Inc.
18.	#15 Roofgrip Large Head	Carbon steel fasteners used in steel, wood and concrete decks.	Various	OMG, Inc.
19.	Dekfast IF-2-SB	Galvalume AZ55 steel plate	2” round	SFS Intec, Inc.
20.	Dekfast Galvalume Steel Round 2-3/8” 20 ga. Barbed Plate	Galvalume AZ55 steel barbed plate	2.37” Round	SFS Intec, Inc.

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
21.	Trufast 2" Barbed Metal Seam Plate	Galvalume steel stress plate	2" Round	Altenloh, Brinck & Co. U.S., Inc.
22.	Trufast 2.4" Barbed Metal Seam Plate	Galvalume steel stress plate	2.4" Round	Altenloh, Brinck & Co. U.S., Inc.
23.	Flat Bottom Metal Plate	Galvalume stress plate.	3" square	OMG, Inc.
24.	OMG 2" Barbed Plate	Galvalume stress plate	2" Round	OMG, Inc.
25.	Trufast 2.4" Scoop Seam Plate	Galvalume steel stress plate	2.4" Round	Altenloh, Brinck & Co. U.S., Inc.
26.	OMG Heavy-Duty	Insulation fastener for wood, steel and concrete.		OMG, Inc.
27.	OMG 2-3/8" Round Barbed Same Plate	Galvalume stress plate	2-3/8" Round	OMG, Inc.
28.	AccuTrac Flat Bottom	Aluminized square stress plate	3" square	OMG, Inc.
29.	Trufast #12 DP Fastener	Insulation fastener for wood and steel.		Altenloh, Brinck & Co. U.S., Inc.

APPROVED SURFACING/COATING OPTIONS:

TABLE 4

Chosen components must be applied according to manufacturer's application instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

System Number	Manufacturer	Application
1.	Generic	Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively.
2.	Soprema, Inc.	Gravel applied at 400 lbs./sq., adhered with FM Adhesive, COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive or Soprastar Adhesive at 4 gal./sq.
3.	Karnak Corporation	Karnak #97 Fibrated Aluminum Roof Coating applied at an application rate of 1.5 gal./sq.
4.	Thermo Manufacturing Systems, LLC	Super Prep Roof Coating applied in two coats at an application rate of 1.5 gal./sq./coat.
5.	Quest Construction Products LLC dba United Coatings	Roof Mate Coating, applied in one base coat at a rate of 1.5 gal./sq. and one finish coat at a rate of 1.5 gal./sq.
6.	Insulating Coatings Corporation	Astec 2000 Finish Coat applied in two base coats at a rate of 0.75 gal./sq./coat and two finish coats at a rate of 0.75 gal./sq./coat.
7.	Henry Company	HE280DC White Elastomeric Roof Coating applied in two coats at an application rate of 1 gal./sq./coat.
8.	National Coating Corp.	Acryshield® A500 applied in two coats at an application rate of 1 gal./sq./coat.
9.	Soprema, Inc.	R-Nova Roof Coating.
10.	Generic	Semi-ceramic coated colored granules.

EVIDENCE SUBMITTED:

Test Agency/Identifier	Report	Name	Date
Dynatech Engineering Corp.	2491-04.95	TAS 114	01/04/95
Factory Mutual Research Corp.	1Z3A6.AM	FM 4470	04/27/95
	1D4A3.AM	FM 4470	04/24/98
	3002351	FM 4470	02/28/03
	3017614	FM 4470	02/27/06
	3026028	FM 4470	05/25/06
	3023458	FM 4450	07/18/06
	3029098	FM 4470	10/25/07
	3032109	FM 4470	07/21/08
	3036182	FM 4470	07/31/09
	3001445	FM 4470	02/05/99
	3X3A7.AM	FM 4470	09/08/94
	3045101	FM 4470	11/05/12
	3049322	FM 4470	01/17/14
	3008441	FM 4470	10/17/00
	3044801	FM 4470	02/27/12
	3047439	FM 4470	07/22/13
	3028410	FM 4470	02/19/07
	3045734	FM 4470	04/04/12
	3046765	FM 4470	02/15/13
	3047351	FM 4470	10/09/14
Underwriters Laboratories	R11436	UL 790	06/18/13
Exterior Research & Design, LLC	2003.02.97-1	TAS 114	02/15/97
	2003-2.04.97-1	TAS 114	04/15/97
	2002.07.97-1	TAS 114	08/15/97
	2716.05.98-1	TAS 114	05/27/98
	2752.02LAB.05.02-1	TAS 114	05/24/02
	2109.09.02	TAS 114	09/19/02
	2764.09.03	TAS 114	09/16/03
	02843.02.05-2	TAS 117 & FM 4470	02/10/05
Trinity | ERD	2774.04 .05-R1	TAS 114	04/18/07
	2779.11.05-R1	TAS 114	04/18/07
	S12370.03.09-1	ASTM D6164	03/06/09
	S12370.03.09-2	ASTM D6164	03/06/09
	S12370.03.09-3	ASTM D6162	03/06/09
	S11440.06.10	ASTM D4798 & TAS 110	06/01/10
	S32840.06.10-R1	TAS 117 (B)	12/11/14
	02848.04.05-R1	TAS 114	10/19/10
	S11440.01.11-R1	ASTM D6164	06/07/12
	S11440.11.10-4	ASTM D2178	11/17/10
	S11440.11.10-3-R1	ASTM D4601	01/30/13
	S11440.12.10-1-R1	ASTM D6163	06/07/12
	S30440.03.10-2-R2	FM 4470 & TAS 114	06/01/10
	S35860.12.11-1-R1	ASTM D2178	12/12/14
	S35860.12.11-2	ASTM D4601	12/12/11

EVIDENCE SUBMITTED: (CONTINUED)

Test Agency/Identifier	Report	Name	Date
Trinity | ERD	S35860.05.12-1-R2	ASTM D6163	02/14/13
	S35860.05.12-2-R3	ASTM D6164	08/28/14
	S35860.05.12-3	ASTM D6164	05/08/12
	S35860.09.12-R2	ASTM D6163	12/12/14
	S39320.01.12-R1	FM 4474 & TAS 114	05/24/12
	S39970.07.12-2	ASTM D6164	07/12/12
	S43400.08.14-6	ASTM D6164	08/26/14
	S45520.11.13-R2	Physical Properties	03/26/14
	S32700.12.10-R2	ASTM D6162	07/07/14
	S43210.11.14	ASTM D1876	11/10/14
	S43400.08.14-5	ASTM D6163	08/26/14
	S45340.10.13	FM 4474 & TAS 114	10/02/13
	S39970.07.12-R1	ASTM D6162	12/12/14
	S47160.01.14-R1	FM 4470 & TAS 114 (H)	12/11/14
	S45010.02.14	ASTM D6506	02/07/14
	S43400.08.14-7-R1	ASTM D6164	11/20/14
	S43400.09.14-9	ASTM D6164	09/02/14
	S43400.09.14-10	ASTM D6298	09/08/14
	S43400.08.14-4-R1	ASTM D6163	10/24/14
	S44110.09.14-3	ASTM D6163	09/08/14
	S44110.09.14-7C	ASTM D6164	09/02/14
	S44220.09.14-1	ASTM D6162	09/08/14
	S44220.09.14-7A	ASTM D4601	09/08/14
	S11440.11.10-3-R2	ASTM D4601 & TAS 117(B)	08/26/14
PRI Construction Materials Technologies, LLC	SOP-049-02-01	ASTM D1644 /D2196	05/31/12
	SOP-043-02-01	ASTM D4601	02/27/12
	SOP-042-02-01	ASTM D4601	02/27/12
	SOP-041-02-01	ASTM D2178	02/27/12
	SOP-040-02-01	ASTM D2178	02/27/12
	SOP-010-02-01.03	TAS-138	07/26/11
	SOP-050-02-01	ASTM D3019	07/12/12
	SOP-033-02-01	FM 4474 & TAS 114	05/10/12
	SOP-056-02-01	Various	09/12/12

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

Engineer/Agency	Identifier	Assemblies	Date
Robert Nieminen, P.E.	Signed/Sealed Calculations	B(1), B(2), B(3), B(5), B(6), C(1), C(6), C(7), C(9), C(10), D(2), D(7), D(8), D(11), D(12), D(13), D(15), D(17)	02/10/16
Factory Mutual Research Corp.	N/A	B(4), C(2), C(3), C(4), C(5), C(8), C(11), C(12), D(1), D(3), D(4), D(5), D(6), D(9), D(10), D(14), D(16), D(18), D(19), D(20), D(21), D(22), D(23), D(24), D(25), D(26)	01/01/13

APPROVED ASSEMBLIES:

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: Min. 22 ga., Type B, Grade 33 steel deck fastened with ¾" puddle welds spaced 6" o.c. to supports spaced maximum 6' o.c. Deck side laps are fastened max. 24" o.c. with Tek/1 fasteners.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type B(1): Optional vapor barrier followed by base layer of insulation mechanically attached, top layer adhered with approved adhesive, roof cover fully adhered.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ENRGY 3 Minimum 2" thick	**7 (#12 or #14) with 28, 7 (#12) or 26 with 6, 2 (#12 or #14) with 14, 29, or 10 with 12**	**1:2 ft²**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board Minimum 3/8" thick	**N/A**	**N/A**

Note: All insulations shall be adhered with hot asphalt full mop applied at a rate of 25 lbs./sq. or with Millennium One Step Foamable Adhesive, Millennium One Step Green Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive applied in continuous ribbons maximum spacing of 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Base Sheet: Pika Ply Base (TG)*, Pika Ply SS-3G (TG)*, Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG)*, Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, torch-applied.
*Requires torch-applied Ply or Cap.

Ply Sheet: (Optional) Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 2.2 (FS)*, applied in hot asphalt at 25 lbs/sq.

Or

Pika Ply Base (TG)*, Pika Ply SS-3G (TG)*, Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG)*, Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, torch-applied.
*Requires torch-applied Cap.

Membrane:	Solarflect, Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, applied in hot asphalt at 25 lbs/sq. Or Solarflect (TG), Pika Ply MS-4G (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-60 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 33 steel fastened to structural supports spaced 6' o.c. with #12-24 x 1-1/4" HWH self-drilling metal screws with ¼" washers in every flute. Deck side laps fastened with #1/4-14 x 7/8" HWH self-drilling metal screws with ¼" washers spaced at 12" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type B(2): Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
H-Shield Minimum 2" thick	**10, with 12**	**1:1.78 ft²**

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Fesco Board Minimum ¾" thick	**N/A**	**N/A**

Note: Top layer of insulation shall be adhered with ASTM D312 Type IV mopping asphalt within the EVT range and at a rate of 25 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: (Optional) One layer of Pika Ply SS-3G, Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: **(Base sheet required for use of torch-applied ply sheets)** One or more layers of Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG)*, Pika Ply 180 (SF) 3.5, torch-applied.

Or

One or more layers of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply 2.2 (FS)*, Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4 or one or more plies of Type IV or Type VI ply sheets adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

*Requires torch-applied cap membrane.

Membrane:	Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied. Or Premium Cap Sheet, Solarflect, Performance Ply MS FR, Pika Ply MS-4, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base or ply membrane.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-67.5 psf. (See General Limitation #7)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners to steel supports spaced maximum 5 ft. o.c. Deck side laps fastened with Traxx/1 fasteners spaced at 20" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type B(3): Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.

All General and System Limitations apply.
One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ACFoam-III, ENRGY 3, ENRGY 3 25 PSI, H-Shield (flat or tapered)		
Minimum 1.5" thick	**2, 4, 7, 9 with approved plates**	**1:1.33 ft²**

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Approved High Density Wood Fiberboard, Structodek High Density Fiberboard Roof Insulation		
Minimum ½" thick	**N/A**	**N/A**
Fesco Board		
Minimum ¾" thick	**N/A**	**N/A**

Note: Top layer of insulation shall be adhered with approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: None

Ply Sheet: One or more layers of Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG)*, Pika Ply 180 (SF) 3.5, torch-applied.

Or

One or more layers of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply 2.2 (FS)*, Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4 or one or more plies of Type IV or Type VI ply sheets, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
*Requires torch-applied cap membrane.

Membrane:	Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied. Or Solarflect, Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base or ply membrane.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-67.5 psf. (For Fesco Board) (See General Limitation #7) -75 psf. (For High Density Wood Fiberboard) (See General Limitation #7)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: Min. 18-22 ga., Type B Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners into steel supports spaced maximum 6 ft. o.c. Deck side laps are attached with Traxx/1 fasteners spaced max. 30" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type B(4): Base layer of insulation mechanically attached, top layer adhered with approved asphalt

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ACFoam-III, H-Shield (flat or tapered) Minimum 2" thick	**10**	**1:1.6 ft²**

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Approved High Density Wood Fiberboard Minimum ½" thick	**N/A**	**N/A**

Note: Top layer of insulation shall be adhered with approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One or more layers of Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
*Requires torch-applied ply or cap membrane.

Ply Sheet: (Optional) One or more layers of Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG)*, torch-applied.

Or

Pika Ply SS-3G, Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base membrane.
*Requires torch-applied cap membrane.

Membrane:	Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied. Or Premium Cap Sheet, Solarflect, Performance Ply MS FR, Pika Ply MS-4, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base or ply membrane.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-75 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: Min. 22 ga., Type B, Grade 33 steel fastened with Tek/5 screws spaced 6" o.c. to supports spaced maximum 6' o.c. Deck side laps are fastened max. 24" o.c. with Tek/1 fasteners.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type B(5): Insulation layer mechanically attached followed by vapor barrier, fully adhered and insulation layers adhered with approved adhesive, roof cover fully adhered.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board		
Min. 0.625-inch thick	**10 with 12**	**1:2 ft^2**

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Vapor Barrier: Pika Ply 180 (SF) 3.5, torch-applied.

Middle Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-III		
Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board		
Minimum 0.25" thick	**N/A**	**N/A**

Note: Middle and Top insulations shall be adhered with Millennium PG-1 Low Viscosity Insulation Adhesive applied in continuous ribbons maximum spacing of 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Base Sheet: One layer of Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF) 3.5, Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG)* torch-applied.

Or

Base Sheet: (Continued) Pika Ply SS-3G, Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4 adhered in hot asphalt at 25 lbs./sq.
*Requires torch-applied cap membrane

Ply Sheet: (Optional)	One layer of Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF) 3.5, Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG)* torch-applied. Or Pika Ply SS-3G, Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4 adhered in hot asphalt at 25 lbs./sq. *Requires torch-applied cap membrane
Membrane:	Pika Ply MS-4G (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Solarflect (TG), Pika Ply Aluminum, torch-applied with minimum 3" wide lap. Or Solarflect, Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, applied in hot asphalt at 25 lbs/sq.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-75 psf. (See General Limitation #7.)

Membrane Type: SBS

Deck Type 2I: Steel, Insulated

Deck Description: Min. 22 ga., Type B, Grade 33 steel fastened to structural supports spaced 6' o.c. with Tek/5 screws in every flute spaced 6" o.c. Deck side laps are fastened max. 24" o.c. with Tek/1 fasteners.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type B(6): Insulation layer mechanically attached followed by vapor barrier, fully adhered and insulation layers adhered with approved adhesive, roof cover fully adhered.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board		
Min. 0.625-inch thick	**10 with 12**	**1:2 ft^2**

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Vapor Barrier: Pika Ply 180 (SF) 3.5, torch-applied.

Middle Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
EnergyGuard Polyiso Insulation or ENRGY 3 CGF		
Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board		
Minimum 0.25" thick	**N/A**	**N/A**

Note: Middle and Top insulation shall be adhered with Millennium PG-1 Low Viscosity Insulation Adhesive applied in continuous ¾" to 1" wide ribbons at a maximum spacing of 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate

Base Sheet: One layer of Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF) 3.5, Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG)*, torch-applied.

Base Sheet: (Continued) Or

Pika Ply SS-3G, Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4 adhered in hot asphalt at 25 lbs./sq.
*Requires torch-applied cap membrane

Ply Sheet: (Optional)	One layer of Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF) 3.5, Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG)*, torch-applied. Or Pika Ply SS-3G, Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4 adhered in hot asphalt at 25 lbs./sq. *Requires torch-applied cap membrane
Membrane:	Pika Ply MS-4G (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Solarflect (TG), Pika Ply Aluminum, torch-applied with minimum 3" wide lap. Or Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, Solarflect adhered in hot asphalt at 25 lbs./sq.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-75 psf. (See General Limitation #7)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade 33 steel fastened 6" o.c. with Traxx/5 fasteners to supports spaced 5 ft. o.c. Deck side laps fastened with Traxx/1 fasteners spaced at 20" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(1): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ACFoam-III, ENRGY 3, ENRGY 3 25 PSI, Multi-Max FA-3, H-Shield (flat or tapered) Minimum 1.5" thick	**N/A**	**N/A**
Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Minimum ¼" thick	**2, 4, 7, or 9**	**1:2 ft²**
Approved High Density Wood Fiberboard Minimum ½" thick	**2, 4, 7, or 9**	**1:2 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: None

Ply Sheet: One or more layers of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply SS-3P, Pika Ply SS-4, or one or more plies of Type IV or Type VI ply sheets adhered in CIM 162 Adhesive applied at a rate of 1.5 gal./sq.

Membrane: Solarflect, Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, adhered in CIM 162 Adhesive applied at a rate of 1.5 gal./sq.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -52.5 psf. (See General Limitation #7)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: Min. 18-22 ga. Type B Grade 80 steel decking over ¼" thick steel supports spaced at maximum 6 ft. o.c. attached with Traxx/5 fasteners at a spacing of 6" o.c. Deck side laps are attached 30" o.c. using Traxx/1 fasteners.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(2): All layers of insulation simultaneously attached.

All General and System Limitations apply.
One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ACFoam-III, ENRGY 3, ENRGY 3 25 PSI, Multi-Max FA-3, H-Shield (flat or tapered) Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Minimum ¼" thick	**7(#14)**	**1:1.78 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: None

Ply Sheet: One or more layers of Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG), Pika Ply 180 (SF) 3.5, torch-applied.

Or

One or more layers of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply 2.2 (FS)*, Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4 or one or more plies of Type IV or Type VI ply sheets, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
*Requires torch-applied cap membrane.

Membrane: Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied.

Or

Solarflect, Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base or ply membrane.

Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-60 psf. (See General Limitation #7)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: Min. 18-22 ga. Type B Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners into steel supports spaced maximum 6 ft. o.c. Deck side laps are attached with Traxx/1 fasteners spaced max. 30" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(3): All layers of insulation simultaneously attached.

All General and System Limitations apply.
One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ACFoam-III, ENRGY 3, H-Shield Multi-Max FA-3 (flat or tapered)		
Minimum 1.4" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck		
Minimum ¼" thick	**2(#14)**	**1:1.78 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: None

Ply Sheet: Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG)*, torch-applied.

Or

Pika Ply SS-3G, Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
*Requires torch-applied cap membrane.

Membrane: Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied.

Or

Premium Cap Sheet, Solarflect, Performance Ply MS FR, Pika Ply MS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base or ply membrane.

Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-60 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 33 steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced maximum deck spans of 6 ft. o.c. Deck side laps are attached with Traxx/1 screws spaced 24" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(4): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ACFoam-II, ACFoam-III, EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, ENRGY 3, ENRGY 3 FR, ENRGY 3 AGF, ENRGY 3 CGF, H-Shield, H-Shield CG, Multi-Max FA-3 (flat or tapered)		
Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
SECUROCK Gypsum-Fiber Roof Board		
Minimum 0.5" thick	**7 (#12 or #14) with 28, 7 (#12) or 26 with 6, 2 (#12 or #14) with 14, 29, or 10 with 12**	**1:1.78 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Primer: (Optional) Coverboard is primed with an approved ASTM D41 asphalt primer at a rate of 100-150 ft^2/gal.

Base Sheet: Pika Ply Base (TG)*, Pika Ply SS-3G (TG)*, Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG)*, Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, torch-applied.
*Requires torch-applied Ply or Cap.

Ply Sheet: (Optional) Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 2.2 (FS)*, applied in hot asphalt at 25 lbs/sq.

Or

Ply Sheet: (Optional) Continued Pika Ply Base (TG)*, Pika Ply SS-3G (TG)*, Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG)*, Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, torch-applied.
*Requires torch-applied Cap.

Membrane:	Solarflect, Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, applied in hot asphalt at 25 lbs/sq. Or Pika Ply MS-4G (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Solarflect (TG), Pika Ply Aluminum, torch-applied.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-52.5 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 33 steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced maximum deck spans of 6 ft. o.c. Deck side laps are attached with Traxx/1 screws spaced 24" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(5): All layers of insulation simultaneously attached.

All General and System Limitations apply.
One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, H-Shield, ISO 95+ GL, ENRGY 3 Minimum 2" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick (4'x8')	**2, 6, 10, 11**	**1:1.78 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more layers of Pika Ply SS-3G, Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq.

*Requires torch-applied ply or cap membrane.

Ply Sheet: (Optional) One or more layers of Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG), torch-applied.

Or

Pika Ply SS-3G, Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base membrane.
*Requires torch-applied cap membrane.

Membrane: Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied.

Or

Premium Cap Sheet, Solarflect, Performance Ply MS FR, Pika Ply MS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base or ply membrane.

Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-60 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 33 steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced maximum deck spans of 6 ft. o.c. Deck side laps are attached with Traxx/1 screws spaced 24" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(6): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any approved polyisocyanurate or EPS or XPS listed in Table 2 Minimum 1" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Pika Ply Recover Board Minimum 1/8" thick	**2, 7, 10, 11**	**1:2 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more layers of Pika Ply SS-3G, Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq.

Or

One or more layers of Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)*, Pika Ply 180 (SF) 3.5, Pika Ply 250 S (TG)*, Vented Base G (TG), Vented Base P (TG), torch-applied.

*Requires torch-applied ply or cap membrane.

Ply Sheet: (Optional) One or more layers of Pika Ply SS-3G, Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base membrane.

Or

Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)*, Pika Ply 180 (SF) 3.5, Pika Ply 250 S (TG)*, torch-applied.
*Requires torch-applied cap membrane.

Membrane:	Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied. Or Premium Cap Sheet, Solarflect, Performance Ply MS FR, Pika Ply MS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base or ply membrane.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-60 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 33 steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced maximum deck spans of 6 ft. o.c. Deck side laps are attached with Traxx/1 screws spaced 24" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(7): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any approved polyisocyanurate or EPS or XPS listed in Table 2 Minimum 1" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Pika Ply Recover Board Minimum 1/8" thick	**2, 7, 10, 11**	**1:2 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more layers of Pika Ply SS-3P, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq.

Or

Pika Ply SS-3P (TG)*, Pika Ply 180 (SF) 3.5, Pika Ply 250 S (TG)*, Vented Base P (TG), torch-applied.

*Requires torch-applied ply or cap membrane.

Ply Sheet: (Optional) Pika Ply SS-3P, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base membrane.

Or

Pika Ply SS-3P (TG)*, Pika Ply 180 (SF) 3.5, Pika Ply 250 S (TG)*, torch-applied.
*Requires torch-applied cap membrane.

Membrane: Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), torch-applied.

Or

Solarflect, Performance Ply MS FR, Pika Ply MS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base or ply membrane.

Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-67.5 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced maximum deck spans of 6 ft. o.c. Deck side laps are attached with Traxx/1 screws spaced 30" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(8): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft2
ACFoam-II, ACFoam-III, EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, ENRGY 3, ENRGY 3 FR, ENRGY 3 AGF, ENRGY 3 CGF, H-Shield, H-Shield CG, Multi-Max FA-3 (flat or tapered)		
Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Dens Deck Prime		
Minimum 0.5" thick	**26 with 6, 10 with 12**	**1:1.6 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: Two plies of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply SS-3P adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: Solarflect, Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, applied in hot asphalt at 25 lbs/sq.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -67.5 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced maximum deck spans of 6 ft. o.c. Deck side laps are attached with Traxx/1 screws spaced 24" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(9): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ACFoam-III, EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, ENRGY 3, ENRGY 3 FR, ENRGY 3 AGF, ENRGY 3 CGF, H-Shield, H-Shield CG, Multi-Max FA-3 (flat or tapered)		
Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board		
Minimum 0.375" thick	**11 with 12**	**1:1.33 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: Pika Ply Base (TG)*, Pika Ply SS-3G (TG)*, Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG)*, Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, torch-applied.

*Requires torch-applied Ply or Cap.

Ply Sheet: (Optional) Pika Ply Base (TG)*, Pika Ply SS-3G (TG)*, Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG)*, Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, torch-applied.

Or

Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 2.2 (FS)*, applied in hot asphalt at 25 lbs/square.

*Requires torch-applied Cap.

Membrane: Solarflect (TG), Pika Ply MS-4G (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied.

Or

Solarflect, Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, applied in hot asphalt at 25 lbs/square.

Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-75 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade 80 steel fastened 6" o.c. with Traxx/5 fasteners to steel supports spaced maximum 5 ft. o.c. Deck side laps fastened with Traxx/1 fasteners spaced at 20" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(10): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any Approved insulation listed in Table 2 (flat or tapered) loose laid.		

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Pika Ply Recover Board Minimum 1/8" thick	**2, 7, 11**	**1:1.25 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more layers of Pika Ply SS-3G, Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4, adhered in a full mopping of approved asphalt, applied within the EVT range and at a rate of 20-40 lbs./sq.

Or

Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG)*, Vented Base G (TG), Vented Base P (TG), torch-applied.

*Requires torch-applied ply or cap membrane.

Ply Sheet: (Optional) One or more layers of Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG)*, torch-applied.

Or

Pika Ply SS-3G, Pika Ply 2.2 (FS)*, Pika Ply 180 (S), Pika Ply 180 (FS)*, Pika Ply SS-3P, Pika Ply SS-4, adhered in a full mopping of approved asphalt, applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base membrane.
*Requires torch-applied cap membrane.

Membrane:	Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied. Or Premium Cap Sheet, Solarflect, Performance Ply MS FR, Pika Ply MS-4, adhered in hot asphalt at 25 lbs./sq. or in Pika Ply MB Adhesive at 1.5 – 2.0 gallons/square to sand surfaced base or ply membrane.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-90 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: Min. 18-22 ga., Type B, Grade 80 steel deck secured to min. ¼" thick supports spaced a max. 6' o.c. with Traxx/5 fasteners spaced a max. 6" o.c. Deck side laps are attached with Traxx/1 screws spaced 24" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(11): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck, DensDeck Prime Minimum 0.25" thick	**N/A**	**N/A**

Middle Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
H-Shield, ACFoam-II, ISO 95+ GL, Multi-Max FA-3, ENRGY 3 Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 0.5" thick	**10, 11 with 12**	**1:1.33 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: Pika Ply SS-3G, Pika Ply 2.2 (FS), Pika Ply 180 (S), Pika Ply 180 (FS), Pika Ply SS-3P, Pika Ply SS-4 adhered in Pika Ply MB Adhesive at a rate of 1.5 gal./sq. or adhered in hot asphalt at 25 lbs./sq.

Or

Pika Ply SS-3G (TG), Pika Ply Base (TG), Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, Pika Ply SS-3P (TG), Pika Ply 250 S (TG), Vented Base G (TG), Vented Base P (TG), torch-applied.

Membrane: Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, Solarflect adhered in hot asphalt at 25 lbs./sq.

Or

Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied.

Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-90 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-20 ga., Type B, Grade 80 steel deck fastened to min. ¼" thick steel structural supports spaced a maximum 6 ft. o.c. with Traxx/5 screws and ¾" diameter washers spaced maximum 6 in. o.c. Side laps are fastened with Traxx/1 screws spaced maximum 12 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(12): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
H-Shield, ACFoam-II		
Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board		
Minimum ½" thick	**10 with 12**	**1:1.33 ft²**
Minimum ½" thick	**10 with 12**	**1:1 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: Two plies of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply SS-3P adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: Solarflect, Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -157.5 psf. (fastener density of 1:1.33 ft^2) (See General Limitation #7)
-172.5 psf. (fastener density of 1:1 ft^2) (See General Limitation #7)

Membrane Type: SBS

Deck Type 1I: Steel, Insulated

Deck Description: 18-22 ga., ASTM A1008/A1008M-01a SS Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced maximum deck spans of 6 ft. o.c. Deck side laps are attached with Traxx/1 screws spaced 30" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(1): All layers of insulation and membrane simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, ACFoam-III, EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, ENRGY 3, ENRGY 3 FR, ENRGY 3 AGF, ENRGY 3 CGF, H-Shield, H-Shield CG, Multi-Max FA-3 (flat or tapered)		
Min. 1.5-inch	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Fesco Board (flat or tapered)		
Homogeneous: Minimum 0.75" thick	**N/A**	**N/A**
Laminated: Minimum 1.5" thick		
Retro-Fit Board, DuraBoard, Structodek High Density Fiberboard Roof Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation		
Minimum 0.5" thick	**N/A**	**N/A**
Kingspan GreenGuard-PB6, Kingpsan GreenGuard-PB6W, Kingspan GreenGuard-PB6 PLUS, Kingspan GreenGuard-PB6FA, Kingspan GreenGuard-PB38FA, Kingspan GreenGuard-PB6FA90, Kingspan GreenGuard-PB3890		
Minimum 0.375" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Invinsa Roof Board, Invinsa FR Roof Board		
Minimum 0.25" thick	**N/A**	**N/A**
Pika Ply Recover Board		
Minimum 0.125" thick	**N/A**	**N/A**

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Membrane:	One ply of Permagard Capsheet fastened to the deck as described below:
Fastening:	Trufast #14 HD Fastener with Dekfast 2-3/8" Round Barbed Seam Plates spaced 12" o.c. within the minimum 5" wide, hot-air welded side laps.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-60 psf. (See General Limitation #7)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 33 steel deck fastened to structural supports spaced a maximum of 6' o.c. with Tek/5 screws and spaced a maximum 6" o.c. at the supports. Side laps are fastened with Traxx/1 screws spaced maximum 24 in. o.c. **This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

System Type D(2): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum ¼" thick DensDeck or DensDeck Prime, loose-laid.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
H-Shield Minimum 1.5" thick	**N/A**	**N/A**

Note: Base layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply, Secure Ply E (MF), Secure Ply (F), Secure Ply (S) or Secure Ply X (TG) fastened to the deck as described below:

Fastening #1: Attach Secure Ply or Secure Ply E (MF) using Trufast #15 EHD Fasteners with Trufast 2.4" Barbed Metal Seam Plates or Dekfast 14 fasteners with Dekfast 2-3/8" Round Barbed Seam Plates with row spacing at a maximum 35" o.c. The fasteners are spaced 12" o.c. in a 4" or 5" wide heat-welded base sheet side laps.

Fastening #2: Attach Secure Ply (F) using Trufast #15 EHD Fasteners with Trufast 2.4" Barbed Metal Seam Plates, Trufast 2" Barbed Metal Seam Plates or Dekfast 14 fasteners with Dekfast 2-3/8" Round Barbed Seam Plates, Dekfast 2" Round Barbed Seam Plates or OMG Heavy-Duty fasteners with OMG 2" Barbed Plates or OMG 2-3/8" Round Barbed Seam Plates with row spacing at a maximum 35" o.c. The fasteners are spaced 12" o.c. in a 5" wide heat-welded base sheet side laps.

Fastening #3: Attach Secure Ply (S) using Trufast #15 EHD Fasteners with Trufast 2.4" Barbed Metal Seam Plates, Trufast 2" Barbed Metal Seam Plates or Dekfast 14 fasteners with Dekfast 2-3/8" Round Barbed Seam Plates or OMG Heavy Duty fasteners with OMG 2" Barbed Plates or OMG 2-3/8" Round Barbed Seam Plates with row spacing at a maximum 35" o.c. The fasteners are spaced 12" o.c. in a 4" wide heat-welded base sheet side laps.

Fastening #4:	Attach Secure Ply X (TG) using Trufast #15 EHD Fasteners with Trufast 2.4" Barbed Metal Seam Plates, Trufast 2" Barbed Metal Seam Plates or Dekfast 14 fasteners with Dekfast 2-3/8" Round Barbed Seam Plates, Dekfast 2" Round Barbed Seam Plates or OMG Heavy-Duty fasteners with OMG 2" Barbed Plates or OMG 2-3/8" Round Barbed Seam Plates with row spacing at a maximum 35" o.c. The fasteners are spaced 12" o.c. in a 6" wide heat-welded base sheet side laps.
Membrane:	Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Solarflect (TG), Pika Ply Aluminum, torch-applied.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-67.5 psf. (See General Limitation #7)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 33 steel deck fastened to ¼" thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners and ¾" diameter steel washers spaced a maximum 6" o.c. at the supports. Side laps are fastened with Traxx/1 fasteners spaced 24 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(3): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum ¼" thick DensDeck or DensDeck Prime, loose-laid.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ISO 95+ GL, Ultra-Max, H-Shield Minimum 1.5" thick	**N/A**	**N/A**
Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Pika Ply Recover Board Minimum 1/8" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply, Secure Ply (S), Secure Ply (F), Secure Ply X (TG) fastened to the deck as described below:

Fastening #1: Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. in a 4" wide torch-applied base sheet side laps.
(Meets Maximum Design Pressure of –67.5 psf. See General Limitation #7.)

Fastening #2: Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2.4" Scoop Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. in a 4" wide torch-applied base sheet side laps.
(Meets Maximum Design Pressure of –75 psf. See General Limitation #7.)

Membrane: Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Solarflect (TG), Pika Ply Aluminum, torch-applied. The 3" wide side laps of the cap sheets are torch-applied.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: See Fastening Requirements above.

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. (**see fastening options for steel gauge**), Type B, Grade 33 steel deck fastened to ¼" thick steel structural supports spaced a maximum of 62"- 72" o.c. (see fastening options) with Traxx/5 fasteners and ¾" diameter steel washers spaced a maximum 6" o.c. at the supports. Side laps are fastened with Traxx/1 fasteners spaced 24 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(4): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum ¼" thick DensDeck or DensDeck Prime, loose-laid. Minimum ½" thickness required if applying a vapor barrier.

Vapor Barrier: (Optional) An FM approved vapor barrier approved for use with torch-adhered, self-adhered, hot asphalt or cold applied may be applied to the deck or over the base insulation layer.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ISO 95+ GL, Ultra-Max, H-Shield Minimum 1.5" thick	**N/A**	**N/A**
Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Pika Ply Recover Board Minimum 1/8" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply, Pika Ply 180 (S), Pika Ply SS-3P, Pika Ply 180 (SF) 3.5, Pika Ply SS-4 fastened to the deck as described below:

Fastening #1: ***(Min. 22 ga. Steel in max. 72" support span)***
Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and centered inside the 4" wide, torch-applied base sheet side laps.
(Meets Maximum Design Pressure of –67.5 psf. See General Limitation #7.)

Fastening #2: ***(Min. 22 ga. Steel in max. 72" support span)***
Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2.4" Scoop Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and centered inside the 4" wide, torch-applied base sheet side laps.
(Meets Maximum Design Pressure of -75 psf. See General Limitation #7.)

Fastening #3: ***(Min. 18 ga. Steel in max. 72" support span; Min. 20 ga. Steel in max. 69" support span; Min. 22 ga. steel in max. 62" support span.)***
Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Seam Plates or Trufast 2.4" Scoop Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. and centered inside the 4" wide torch-applied base sheet side laps.
(Meets Maximum Design Pressure of –112.5 psf. See General Limitation #7.)

Membrane: Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, Solarflect adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Pika Ply MB Adhesive at 1.5 – 2.0 gallons/square. The 3" wide side laps are adhered with the same adhesive or torch-applied.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: See Fastening Requirements above.

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 80 steel deck fastened to ¼" thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners and ¾" diameter steel washers spaced a maximum 6" o.c. at the supports. Side laps are fastened with Traxx/1 fasteners spaced 12 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(5): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum ¼" thick DensDeck or DensDeck Prime, loose-laid. Minimum ½" thickness required if applying a vapor barrier.

Vapor Barrier: (Optional) An FM approved vapor barrier approved for use with torch-adhered, self-adhered, hot asphalt or cold applied may be applied to the deck or over the base insulation layer.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ISO 95+ GL, Ultra-Max, H-Shield Minimum 1.5" thick	**N/A**	**N/A**
Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Pika Ply Recover Board Minimum 1/8" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply, Pika Ply 180 (S), Pika Ply SS-3P, Pika Ply 180 (SF) 3.5, Pika Ply SS-4 fastened to the deck as described below:

Fastening #1: Attach base sheet using Trufast #14 HD Fasteners with Trufast 2" Barbed Metal Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and centered inside the 4" wide torch-applied base sheet side laps.
(Meets Maximum Design Pressure of -67.5 psf. See General Limitation #7.)

Fastening #2: Attach base sheet using Trufast #14 HD Fasteners with Trufast 2.4" Scoop Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and centered inside the 4" wide torch-applied base sheet side laps.
(Meets Maximum Design Pressure of -75 psf. See General Limitation #7.)

Fastening #3	Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2.4" Scoop Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and centered inside the 4" wide torch-applied base sheet side laps. ***(Meets Maximum Design Pressure of -97.5 psf. See General Limitation #7.)***
Fastening #4:	Attach base sheet using Trufast #14 HD or Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Seam Plates or Trufast 2.4" Scoop Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. and centered inside the 4" wide torch-applied base sheet side laps. ***(Meets Maximum Design Pressure of -120 psf. See General Limitation #7.)***
Membrane:	Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, Solarflect adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Pika Ply MB Adhesive at 1.5 – 2.0 gallons/square. The 3" wide side laps are adhered with the same adhesive or torch-applied.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	See Fastening Requirements above.

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 80 steel deck fastened to ¼" thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners and ¾" diameter steel washers spaced a maximum 6" o.c. at the supports. Side laps are fastened with Traxx/1 fasteners spaced 12 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(6): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum ¼" thick DensDeck or DensDeck Prime, loose-laid.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ISO 95+ GL, Ultra-Max, H-Shield Minimum 1.5" thick	**N/A**	**N/A**
Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Pika Ply Recover Board Minimum 0.125" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 0.25" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply, Secure Ply (S), Secure Ply (F) or Secure Ply X (TG) fastened to the deck as described below:

Fastening #1: Attach base sheet using Trufast #14 HD Fasteners with Trufast 2" Barbed Metal Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and centered inside the 4" wide torch-applied base sheet side laps.
(Meets Maximum Design Pressure of -67.5 psf. See General Limitation #7.)

Fastening #2: Attach base sheet using Trufast #14 HD Fasteners with Trufast 2.4" Scoop Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and centered inside the 4" wide torch-applied base sheet side laps.
(Meets Maximum Design Pressure of -75 psf. See General Limitation #7.)

Fastening #3: Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. in a 4" wide torch-applied base sheet side laps.
(Meets Maximum Design Pressure of -120 psf. See General Limitation #7.)

Fastening #4:	Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2.4" Scoop Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. in a 4" wide torch-applied base sheet side laps. ***(Meets Maximum Design Pressure of -142.5 psf. See General Limitation #7.)***
Membrane:	Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Solarflect (TG), Pika Ply Aluminum, torch-applied. The 3" wide side laps of the cap sheets are torch-applied.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	See Fastening Requirements above.

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 33 steel deck fastened to structural supports spaced a maximum of 6' o.c. with Tek/5 screws and spaced a maximum 6" o.c. at the supports. Side laps are fastened with Traxx/1 screws spaced maximum 24 in. o.c. **This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

System Type D(7): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum ¼" thick DensDeck or DensDeck Prime, loose-laid.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
H-Shield Minimum 1.5" thick	**N/A**	**N/A**

Note: Base layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply (S), Secure Ply (F), Secure Ply X (TG), fastened to the deck as described below:

Fastening #1: Attach using Trufast #15 EHD Fasteners with Trufast 2.4" Scoop Seam Plates with row spacing at a maximum 35" o.c. The fasteners are spaced 12" o.c. in a 4" wide heat-welded base sheet side laps.

Membrane: Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Solarflect (TG), Pika Ply Aluminum, torch-applied.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -75 psf. (See General Limitation #7)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 33 steel deck fastened to structural supports spaced a maximum of 6' o.c. with Tek/5 screws and spaced a maximum 6" o.c. at the supports. Side laps are fastened with Traxx/1 screws spaced maximum 24 in. o.c. **This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

System Type D(8): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum ¼" thick DensDeck or DensDeck Prime, loose-laid.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
H-Shield Minimum 1.5" thick	**N/A**	**N/A**

Note: Base layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply, Secure Ply E (MF), Secure Ply (F), Secure Ply (S) or Secure Ply X (TG) fastened to the deck as described below:

Fastening #1: Attach Secure Ply using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Seam Plates, Trufast 2.4" Barbed Metal Seam Plates or Dekfast 14 fasteners with Dekfast 2-3/8" Round Barbed Seam Plates or OMG Heavy-Duty fasteners with OMG 2-3/8" Round Barbed Seam Plates with row spacing at a maximum 34" o.c. The fasteners are spaced 6" o.c. in a 4" or 5" wide heat-welded base sheet side laps.

Fastening #2: Attach Secure Ply E (MF) using Trufast #15 EHD Fasteners with Trufast 2.4" Barbed Metal Seam Plates or Dekfast 14 fasteners with Dekfast 2-3/8" Round Barbed Seam Plates or OMG Heavy-Duty fasteners with OMG 2-3/8" Round Barbed Seam Plates with row spacing at a maximum 34" o.c. The fasteners are spaced 6" o.c. in a 4" or 5" wide heat-welded base sheet side laps.

Fastening #3: Attach Secure Ply (F) using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Seam Plates, Trufast 2.4" Barbed Metal Seam Plates or Dekfast 14 fasteners with Dekfast 2-3/8" Round Barbed Seam Plates, Dekfast 2" Round Barbed Seam Plates or OMG Heavy-Duty fasteners with OMG 2" Barbed Plates or OMG 2-3/8" Round Barbed Seam Plates with row spacing at a maximum 34" o.c. The fasteners are spaced 6" o.c. in a 5" wide heat-welded base sheet side laps.

Fastening #4:	Attach Secure Ply X (TG) using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Seam Plates, Trufast 2.4" Barbed Metal Seam Plates or Dekfast 14 fasteners with Dekfast 2-3/8" Round Barbed Seam Plates, Dekfast 2" Round Barbed Seam Plates or OMG Heavy-Duty fasteners with OMG 2" Barbed Plates or OMG 2-3/8" Round Barbed Seam Plates with row spacing at a maximum 34" o.c. The fasteners are spaced 6" o.c. in a 6" wide heat-welded base sheet side laps.
Fastening #5:	Attach Secure Ply (S) using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Seam Plates, Trufast 2.4" Barbed Metal Seam Plates or Dekfast 14 fasteners with Dekfast 2-3/8" Round Barbed Seam Plates or OMG Heavy-Duty fasteners with OMG 2" Barbed Plates or OMG 2-3/8" Round Barbed Seam Plates with row spacing at a maximum 34" o.c. The fasteners are spaced 6" o.c. in a 4" wide heat-welded base sheet side laps.
Membrane:	Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Solarflect (TG), Pika Ply Aluminum, torch-applied.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-82.5 psf. (See General Limitation #7)

Membrane:	SBS
Deck Type 2I:	Steel, Insulated
Deck Description:	18-22 ga., Type B, Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners at supports spaced maximum 6 ft. o.c. Side laps are fastened with Traxx/1 fasteners spaced 30" o.c. **This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**
System Type D(9):	Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, H-Shield (flat or tapered) Minimum 1.5" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet:	Secure Ply, Secure Ply (S), Secure Ply (F), Secure Ply X (TG) or Secure Ply E (MF), mechanically attached with OMG Polymer Batten Strip and OMG #15 Roofgrip Large Head fasteners, Trufast Recessed Batten Bar or Trufast Recessed Batten Bar and Trufast #15 EHD Fasteners, spaced 12" o.c. in the min. 5" lap.
Ply Sheet: (Optional)	One or more layers of Pika Ply SS-3P (TG), Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG), torch-applied.
Membrane:	Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), torch-applied.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-75 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 80 Steel decking fastened 6" o.c. with Traxx/5 fasteners to supports spaced maximum 6' o.c. Deck side laps are fastened 24" o.c. with Traxx/1 fasteners.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(10): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ACFoam-II, H-Shield (flat or tapered) Minimum 1.5" thick	**N/A**	**N/A**
Fesco Board, Approved Perlite Insulation Minimum 0.75" thick	**N/A**	**N/A**

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply, Secure Ply (S), Secure Ply (F), or Secure Ply E (MF), fastened to the deck as described below:

Fastening: Attach base sheet using Trufast Recessed Batten Bar with Trufast #14 HD Fasteners spaced 12" o.c. in the minimum 5" wide lap.

Ply Sheet: (Optional) One or more layers of Pika Ply SS-3G (TG)*, Pika Ply Base (TG)*, Pika Ply SS-3P (TG)*, Pika Ply 250 S (TG)*, torch-applied.
*Requires torch-applied cap membrane.

Membrane: Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -75 psf. (General Limitation #7)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., ASTM A1008 Grade 80, Type B steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced 6 ft. o.c. Side laps are fastened with Traxx/1 fasteners spaced 30 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(11): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Any Approved Polyiso insulation listed in Table 2 (flat or tapered) loose laid.		
Minimum 1.5" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: Secure Ply, Secure Ply (S), Secure Ply (F), Secure Ply X (TG) or Secure Ply E (MF), mechanically attached with OMG Polymer Batten Strip and OMG #15 Roofgrip Large Head fasteners, Trufast Flat Batten Bar and Trufast #15 EHD Fasteners or SFS Dekfast Coiled Batten Bar and #15 Dekfast fasteners, spaced 12" o.c. in the min. 5" lap.

Ply Sheet: (Optional) One or more layers of Pika Ply SS-3P (TG), Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG), torch-applied.

Membrane: Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -97.5 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., ASTM A1008 Grade 80, Type B steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced 6 ft. o.c. Side laps are fastened with Traxx/1 fasteners spaced 30 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(12): Membrane fastened over preliminarily fastened insulation.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Any Approved Polyiso insulation listed in Table 2 (flat or tapered) loose laid. Minimum 1.5" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: Secure Ply, Secure Ply (S), Secure Ply (F) or Secure Ply X (TG), mechanically attached with OMG Polymer Batten Strip and OMG #15 Roofgrip Large Head fasteners, Trufast Flat Batten Bar and Trufast #15 EHD Fasteners or SFS Dekfast Coiled Batten Bar and Dekfast 15 HS fasteners, spaced 12" o.c. in the min. 4" torch-applied lap.

Ply Sheet: (Optional) One or more layers of Pika Ply SS-3P (TG), Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG), torch-applied.

Membrane: Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -105 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18 ga. Type 3N, Grade 33 steel decking attached to minimum ½" thick, W14 x 43 purlins with an 8" wide top flange spaced maximum 9 ft. o.c. using ¾" puddle welds spaced 8" o.c. (every bottom flute). Two welds per attachment point, spaced 4" apart. Steel deck side laps are attached 24" o.c. with Traxx/1 fasteners. **This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

System Type D(13): Membrane fastened over preliminary fastened insulation.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ACFoam-II Minimum 1.5" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply X (TG) fastened through the insulation to the structural deck using Dekfast 15 HS fasteners and 70-mm round plates spaced 16" o.c. in a 5" wide lap and 16" o.c. in one center row. The side lap fastener row is encapsulated in the torch-applied lap and the center row is stripped-in with an 8" wide strip of torch-applied membrane.

Ply Sheet: (Optional) One or more layers of Pika Ply SS-3G (TG), Pika Ply Base (TG), Pika Ply SS-3P (TG), Pika Ply 250 S (TG), torch-applied.

Membrane: Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -112.5 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Grade 80, Type B steel deck fastened to ¼" thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners and ¾" diameter steel washers spaced a maximum 6" o.c. at the supports. Side laps are fastened with Traxx/1 fasteners spaced 12 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(14): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum ¼" thick DensDeck or DensDeck Prime, loose-laid.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ISO 95+ GL, Ultra-Max, H-Shield Minimum 1.5" thick	**N/A**	**N/A**
Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Pika Ply Recover Board Minimum 1/8" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply, Secure Ply (S), Secure Ply (F) or Secure Ply X (TG) fastened to the deck as described below:

Fastening #1: Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Seam Plates or Trufast 2.4" Scoop Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. in a 4" wide torch-applied base sheet side laps.

Membrane: Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Solarflect (TG), Pika Ply Aluminum, torch-applied. The 3" wide side laps of the cap sheets are torch-applied.

Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-112.5 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18 ga. ASTM A1008 Grade 80, Type B steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced 6 ft. o.c. Side laps are fastened with Traxx/1 fasteners spaced 30 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(15): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Any Approved Polyiso insulation listed in Table 2 (flat or tapered) loose laid. Minimum 1.5" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply, Secure Ply (S), Secure Ply (F) or Secure Ply X (TG), mechanically attached with OMG Polymer Batten Strip and OMG #15 Roofgrip Large Head fasteners, Trufast Flat Batten Bar and Trufast #15 EHD Fasteners, SFS Dekfast Coiled Batten Bar and Dekfast 15 HS fasteners, spaced 6" o.c. in every other minimum 4" torch-applied lap. Intermediate, non-fastened laps are 3" wide and torch-applied.

Ply Sheet: (Optional) One or more layers of Pika Ply SS-3P (TG), Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG), torch-applied.

Membrane: Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -120 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: Min. 18-22 ga., Type B, Grade 80 steel deck fastened to ¼" thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners spaced a maximum 6" o.c. at the supports. Side laps are fastened with Traxx/1 fasteners spaced 12 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(16): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum ¼" thick DensDeck or DensDeck Prime, loose-laid.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, ISO 95+ GL, Ultra-Max, H-Shield Minimum 1.5" thick	**N/A**	**N/A**
Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Pika Ply Recover Board Minimum 0.125" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 0.25" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply, Secure Ply (S), Secure Ply (F) or Secure Ply X (TG) fastened to the deck as described below:

Fastening #1: Attach base sheet using Trufast #14 HD Fasteners with Trufast 2" Barbed Metal Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. and centered inside the 4" wide torch-applied base sheet side laps.
(Meets Maximum Design Pressure of -120 psf. See General Limitation #7.)

Fastening #2: Attach base sheet using Trufast #14 HD Fasteners with Trufast 2.4" Scoop Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. and centered inside the 4" wide torch-applied base sheet side laps.
(Meets Maximum Design Pressure of -135 psf. See General Limitation #7.)

Membrane: Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Solarflect (TG), Pika Ply Aluminum, torch-applied. The 3" wide side laps of the cap sheets are torch-applied.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: See Fastening Requirements above.

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18 ga., Type B, Grade 33 steel deck fastened to structural supports spaced a maximum of 6' o.c. with Tek/5 screws and spaced a maximum 6" o.c. at the supports. Side laps are fastened with Traxx/1 screws spaced maximum 24 in. o.c. **This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

System Type D(17): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum ¼" thick DensDeck or DensDeck Prime, loose-laid.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
H-Shield Minimum 1.5" thick	**N/A**	**N/A**

Note: Base layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply (F), Secure Ply (S) or Secure Ply X (TG) fastened to the deck as described below:

Fastening #1: Attach Secure Ply (F) using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Seam Plates, Trufast 2.4" Barbed Metal Seam Plates or Dekfast 14 fasteners with Dekfast 2-3/8" Round Barbed Seam Plates or OMG Heavy-Duty fasteners with OMG 2-3/8" Round Barbed Seam Plates with row spacing at a maximum 34" o.c. The fasteners are spaced 6" o.c. in a 5" wide heat-welded base sheet side laps.

Fastening #2: Attach Secure Ply (S) using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Seam Plates, Trufast 2.4" Barbed Metal Seam Plates or Dekfast 14 fasteners with Dekfast 2-3/8" Round Barbed Seam Plates or OMG Heavy-Duty fasteners with OMG 2-3/8" Round Barbed Seam Plates with row spacing at a maximum 34" o.c. The fasteners are spaced 6" o.c. in a 4" wide heat-welded base sheet side laps.

Fastening #3: Attach Secure Ply X (TG) using Trufast #15 EHD Fasteners with Trufast 2.4" Scoop Seam Plates, Trufast 2" Barbed Metal Seam Plates or Dekfast 14 fasteners with Dekfast 2-3/8" Round Barbed Seam Plates, Dekfast 2" Round Barbed Seam Plates or OMG Heavy-Duty with OMG 2" Barbed Plates or OMG 2-3/8" Round Barbed Seam Plates with row spacing at a maximum 35" o.c. The fasteners are spaced 12" o.c. in a 5" or 6" wide heat-welded base sheet side laps.

Membrane: Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Solarflect (TG), Pika Ply Aluminum, torch-applied.

Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-142.5 psf. (See General Limitation #7)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 20 ga., Grade 80, Type B steel deck attached to supports having a maximum span of 72" o.c. attached to structural supports with two Traxx/5 fasteners and 0.75" diameter washer spaced 6" o.c. at each corrugation. Panel side laps are fastened 13" o.c. with Traxx/1 fasteners.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(18): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL, Ultra-Max (flat or tapered)		
Minimum 1.5" thick	**N/A**	**N/A**
Middle Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck (staggered from base layer)		
Minimum 0.5" thick	**N/A**	**N/A**
Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Pika Ply Recover Board		
Minimum 0.25" thick	**2 (#14)**	**1:4 ft^2**

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply X (TG) or Pika Ply 250 S (TG), torch-applied to insulation with a minimum 6" wide lap, then fastened to the deck as described below:

Fastening #1: Attach base sheet using Dekfast 15 HS with Dekfast 2-3/8" Round Barbed Seam Plates in rows spaced maximum 18" o.c., with fasteners spaced maximum 6" o.c. within each row.

Fastening #2: Attach base sheet using Dekfast 15 HS Fasteners with Dekfast 2-3/8" Round Barbed Seam Plates in rows spaced maximum 12" o.c., with fasteners spaced maximum 12" o.c. within each row.

Ply Sheet: Pika Ply SS-3P (TG), Pika Ply 250 S (TG), torch-applied with minimum 3" wide lap.

Membrane: Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, torch-applied with minimum 3" wide lap.

Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system
Maximum Design Pressure:	-157.5 psf. (See General Limitation #7)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 ga., Grade 80, Type B steel deck attached to supports having a maximum span of 72" o.c. attached to structural supports with two Traxx/5 fasteners and 0.75" diameter washer spaced 6" o.c. at each corrugation. Panel side laps are fastened 12" o.c. with Traxx/1 fasteners.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(19): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum 5/8" thick SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime, pre-secured with a maximum contributory area of 1:4 ft²

Vapor Barrier: (Optional) One or more layers of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 2.2 (FS), Pika Ply 180 (FS), adhered in hot asphalt at 25 lbs./sq. or applied in Pika Ply MB Adhesive at a rate of 1.5 gal./sq.

Or

Pika Ply SS-3G (TG), Pika Ply Base (TG), Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, Pika Ply SS-3P (TG), Pika Ply 250 S (TG), torch-applied.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, Ultra-Max Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime Minimum 0.5" thick	**2 (#14), 3**	**1:4 ft²**

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Primer: (Optional) Coverboard is primed with an approved ASTM D41 asphalt primer at a rate of 100-150 ft2/gal.

Base Sheet: One layer of Pika Ply SS-3P (TG), Pika Ply 250 S (TG), Secure Ply, Secure Ply (F), Secure Ply (S), Secure Ply X (TG), Secure Ply E (MF), fastened as specified below.

*For use only when using 2 in. diameter plates.

Fastening:	Mechanically attach base sheet with Dekfast 14 or Dekfast 15 HS fasteners with Dekfast IF-2-SB, Dekfast Galvalume Steel Round 2-3/8" 20 ga. Barbed plates, Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Stress Plates or Trufast 2.4" Barbed Metal Seam Plates spaced maximum 12" o.c. through the minimum 3" wide side lap and two equally spaced staggered rows in the field of the membrane.
Ply Sheet:	Pika Ply SS-3G (TG), Pika Ply Base (TG), Pika Ply SS-3P (TG), Pika Ply 250 S (TG), torch-applied.
Membrane:	Pika Ply MS-4G (TG), Pika Ply Aluminum, Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), torch-applied.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-150 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 20 ga., Grade 80, Type B steel deck attached to supports having a maximum span of 72" o.c. attached to structural supports with two Traxx/5 fasteners and 0.75" diameter washer spaced 6" o.c. at each corrugation. Panel side laps are fastened 12" o.c. with Traxx/1 fasteners.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(20): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum 5/8" thick SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime, pre-secured with a maximum contributory area of 1:4 ft²

Vapor Barrier: (Optional) One or more layers of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 2.2 (FS), Pika Ply 180 (FS), adhered in hot asphalt at 25 lbs./sq. or applied in Pika Ply MB Adhesive at a rate of 1.5 gal./sq.

Or

Pika Ply SS-3G (TG), Pika Ply Base (TG), Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, Pika Ply SS-3P (TG), Pika Ply 250 S (TG), torch-applied.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, Ultra-Max Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime Minimum 0.5" thick	**2 (#14), 3**	**1:4 ft²**

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Primer: (Optional) Coverboard is primed with an approved ASTM D41 asphalt primer at a rate of 100-150 ft2/gal.

Base Sheet: One layer of Pika Ply SS-3P (TG), Pika Ply 250 S (TG), Secure Ply, Secure Ply (F), Secure Ply (S), Secure Ply X (TG), Secure Ply E (MF), fastened as specified below.
*For use only when using 2 in. diameter plates.

Fastening:	Torch-applied base membrane to the coverboard with minimum 3” laps. Mechanically attach torch-applied base sheet withDekfast 14 or Dekfast 15 HS fasteners with Dekfast IF-2-SB or Dekfast Galvalume Steel Round 2-3/8” 20 ga. Barbed plates, Trufast #15 EHD Fasteners with Trufast 2” Barbed Metal Stress Plates or Trufast 2.4” Barbed Metal Seam Plates spaced maximum 12” o.c. through the side laps and two equally spaced staggered rows in the field of the membrane.
Ply Sheet:	Pika Ply SS-3G (TG), Pika Ply Base (TG), Pika Ply SS-3P (TG), Pika Ply 250 S (TG), torch-applied.
Membrane:	Pika Ply MS-4G (TG), Pika Ply Aluminum, Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), torch-applied.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	–165 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel Insulated

Deck Description: Minimum 22 ga., Grade 80, Type B steel deck attached to supports having a maximum span of 72" o.c. attached to structural supports with two Traxx/5 fasteners and 0.75" diameter washer spaced 6" o.c. at each corrugation. All of the above steel deck options; panel side laps are fastened 12" o.c. with Traxx/1 fasteners.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(21): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum 5/8" thick SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime, pre-secured with a maximum contributory area of 1:4 ft²

Vapor Barrier: (Optional) One or more layers of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 2.2 (FS), Pika Ply 180 (FS), adhered in hot asphalt at 25 lbs./sq. or applied in Pika Ply MB Adhesive at a rate of 1.5 gal./sq.

Or

Pika Ply SS-3G (TG), Pika Ply Base (TG), Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, Pika Ply SS-3P (TG), Pika Ply 250 S (TG), torch-applied.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, Ultra-Max Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime Minimum 0.5" thick	**2, 10 or 11**	**1:4 ft²**

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Primer: (Optional) Coverboard is primed with an approved ASTM D41 asphalt primer at a rate of 100-150 ft²/gal.

Base Sheet: One Layer of Pika Ply 180 (SF) 3.5, fastened as specified below:

Fastening: Mechanically attach torch-applied base sheet with Dekfast 14 or Dekfast 15 HS fasteners with Dekfast IF-2-SB, Dekfast Galvalume Steel Round 2-3/8" 20 ga. Barbed plates, Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Stress Plates or Trufast 2.4" Barbed Metal Seam Plates, spaced maximum 12" o.c. through the minimum 3" wide side lap and two equally spaced staggered rows in the field of the membrane.

Ply Sheet:	Pika Ply 180 (FS), Pika Ply 2.2 (FS), adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	Pika Ply MS-4G (TG), Pika Ply Aluminum, Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), torch-applied with minimum 3" wide side lap.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-150 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel Insulated

Deck Description: Minimum 20 ga., Grade 80, Type B steel deck attached to supports having a maximum span of 72" o.c. attached to structural supports with two Traxx/5 fasteners and 0.75" diameter washer spaced 6" o.c. at each corrugation. Panel side laps are fastened 12" o.c. with Traxx/1 fasteners.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(22): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum 5/8" thick SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime, pre-secured with a maximum contributory area of 1:4 ft²

Vapor Barrier: (Optional) One or more layers of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 2.2 (FS), Pika Ply 180 (FS), adhered in hot asphalt at 25 lbs./sq. or applied in Pika Ply MB Adhesive at a rate of 1.5 gal./sq.

Or

Pika Ply SS-3G (TG), Pika Ply Base (TG), Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, Pika Ply SS-3P (TG), Pika Ply 250 S (TG), torch-applied.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, Ultra-Max Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime Minimum 0.5" thick	**2, 10 or 11**	**1:4 ft²**

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Primer: (Optional) Coverboard is primed with an approved ASTM D41 asphalt primer at a rate of 100-150 ft²/gal.

Base Sheet: One Layer of Pika Ply 180 (SF) 3.5, fastened as specified below:

Fastening: Torch-applied base sheet to coverboard with minimum 3" wide side lap. Mechanically attach torch-applied base sheet with Dekfast 14 or Dekfast 15 HS fasteners with Dekfast IF-2-SB, Dekfast Galvalume Steel Round 2-3/8" 20 ga. Barbed plates, Trufast#15 EHD Fasteners with Trufast 2" Barbed Metal Stress Plates or Trufast 2.4" Barbed Metal Seam Plates, spaced maximum 12" o.c. through the side laps and two equally spaced staggered rows in the field of the membrane.

Ply Sheet:	Pika Ply 180 (FS), Pika Ply 2.2 (FS), adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	Pika Ply MS-4G (TG), Pika Ply Aluminum, Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), torch-applied with minimum 3" wide side lap.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	–165 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 ga., Grade 80, Type B steel deck attached to supports having a maximum span of 72" o.c. attached to structural supports with two Traxx/5 fasteners and 0.75" diameter washer spaced 6" o.c. at each corrugation. Panel side laps are fastened 12" o.c. with Traxx/1 fasteners.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(23): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.
One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, Ultra-Max Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime Minimum 0.5" thick	**2, 10, 11**	**1:4 ft²**

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Primer: (Optional) Coverboard is primed with an approved ASTM D41 asphalt primer at a rate of 100-150 ft²/gal.

Base Sheet: One layer of Pika Ply 180 (SF) 3.5, Secure Ply (F)*, Secure Ply (S)*, Secure Ply X (TG)*, Secure Ply*, Secure Ply E (MF), torch-applied to coverboard.
*Requires torch-applied cap membrane.

Fastening: Mechanically attach base sheet with Dekfast 14, Dekfast 15 HS fasteners with Dekfast IF-2-SB, Dekfast Galvalume Steel Round 2-3/8" 20 ga. Barbed plates, Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Stress Plates or Trufast 2.4" Barbed Metal Seam Plates, spaced maximum 12" o.c. through the minimum 3" wide side lap and two equally spaced staggered rows in the field of the membrane.

Ply Sheet: Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, torch-applied.

Or

Pika Ply 180 (S), Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane:	Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, Solarflect adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-150 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel Insulated

Deck Description: Minimum 20 ga., Grade 80, Type B steel deck attached to supports having a maximum span of 72" o.c. attached to structural supports with two Traxx/5 fasteners and 0.75" diameter washer spaced 6" o.c. at each corrugation. Panel side laps are fastened 12" o.c. with Traxx/1 fasteners.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(24): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, Sopra-ISO s, ISO 95+ GL, H-Shield, ENRGY 3, Ultra-Max		
Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime		
Minimum 0.5" thick	**2, 10, 11**	**1:4 ft²**

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Primer: (Optional) Coverboard is primed with an approved ASTM D41 asphalt primer at a rate of 100-150 ft²/gal.

Base Sheet: One layer of Pika Ply 180 (SF) 3.5, Secure Ply (F)*, Secure Ply (S)*, Secure Ply X (TG)*, Secure Ply*, Secure Ply E (MF), torch-applied to coverboard.
*Requires torch-applied cap membrane.

Fastening: Torch-applied base sheet to coverboard with minimum 3" wide side lap. Mechanically attach torch-applied base sheet with Dekfast 14 or Dekfast 15 HS fasteners with Dekfast IF-2-SB, Dekfast Galvalume Steel Round 2-3/8" 20 ga. Barbed plates, Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Stress Plates or Trufast 2.4" Barbed Metal Seam Plates, spaced maximum 12" o.c. through the side laps and two equally spaced staggered rows in the field of the membrane.

Ply Sheet: Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, torch-applied.

Or

Pika Ply 180 (S), Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane:	Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, Solarflect adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	–165 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B, Grade 80 steel deck fastened to ¼" thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners spaced a maximum 6" o.c. at the supports. Side laps are fastened with Traxx/1 fasteners spaced 12 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(25): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum ¼" thick DensDeck or DensDeck Prime, loose-laid.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ISO 95+ GL, Ultra-Max, H-Shield Minimum 1.5" thick	**N/A**	**N/A**
Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Pika Ply Recover Board Minimum 1/8" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply X (TG) fastened to the deck as described below:

Fastening: Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2.4" Scoop Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and centered inside the 4" wide torch-applied base sheet side laps.

Membrane: Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Solarflect (TG), Pika Ply Aluminum, torch-applied. The 3" wide side laps of the cap sheets are torch-applied.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -97.5 psf. (See General Limitation #7.)

Membrane: SBS

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 20 ga., Grade 80, Type B steel deck attached to supports having a maximum span of 72" o.c. attached to structural supports with two Traxx/5 fasteners spaced 6" o.c. at each corrugation. Panel side laps are fastened 12" o.c. with Traxx/1 fasteners.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(26): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Fire Barrier: (Optional) Minimum ¼" thick DensDeck or DensDeck Prime, loose-laid.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ISO 95+ GL, Ultra-Max, H-Shield Minimum 1.5" thick	**N/A**	**N/A**
Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Pika Ply Recover Board Minimum 1/8" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Secure Ply X (TG) fastened to the deck as described below:

Fastening: Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2.4" Scoop Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. and centered inside the 4" wide torch-applied base sheet side laps.

Membrane: Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Solarflect (TG), Pika Ply Aluminum, torch-applied. The 3" wide side laps of the cap sheets are torch-applied.

Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-172.5 psf. (See General Limitation #7.)

STEEL DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.
   Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE